

Combination type 1/2 protective device - FLT-SEC-H-T1-3C-440/25-FM - 2907260

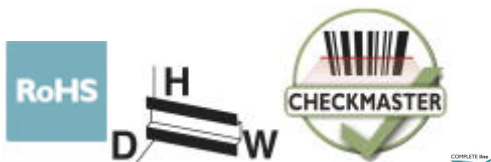
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Plug-in lightning current arrester, in accordance with Type 1/Class I, with integrated surge-proof fuse, for 3-phase power supply networks with combined PE and N installed in one conductor (L1, L2, L3, PEN).

Your advantages

- ✓ Integrated combination of spark gap without line follow current and surge-proof fuse
- ✓ Can be used without separate backup fuse thanks to integrated overcurrent protection
- ✓ Free of leakage current, suitable for use in the pre-meter area
- ✓ Can be inserted with innovative push-pull locking mechanism
- ✓ Low voltage protection level of 2.5 kV
- ✓ Optical, mechanical status indicator
- ✓ With floating remote indication contact



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 176437
GTIN	4055626176437
Weight per Piece (excluding packing)	1,755.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	167 mm
Width	106.8 mm
Depth	74.5 mm
Horizontal pitch	6 Div.

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Technical data

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

General

IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
	TT
Mode of protection	L-PEN
	L-PE
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20 % GF
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	400/690 V AC (TN-C)
	400 V AC (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	440 V AC
Residual current I_{PE}	≤ 5 μA
Nominal discharge current I_n (8/20) μs	25 kA
Maximum discharge current I_{max} (8/20) μs	50 kA
Impulse discharge current (10/350) μs, charge	12.5 As
Impulse discharge current (10/350) μs, specific energy	160 kJ/Ω
Impulse discharge current (10/350) μs, peak value I_{imp}	25 kA
Follow current interrupt rating I_{fi}	50 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	≤ 2.5 kV
Residual voltage U_{res}	≤ 2.1 kV (at I_n)

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Protective circuit

	≤ 2.8 kV (at 50 kA)
	≤ 1.7 kV (at 12.5 kA)
	≤ 1.5 kV (at 5 kA)
	≤ 1.35 kV (at 2.5 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	≤ 2.5 kV
TOV behavior at U _T	580 V AC (5 s / withstand mode)
	760 V AC (120 min / withstand mode)
	1640 V AC (200 ms / safe failure mode)
Response time t _A	≤ 100 ns

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	12 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
	1 A DC (30 V DC)
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross section flexible	2.5 mm ² ... 35 mm ²
Conductor cross section solid	2.5 mm ² ... 35 mm ²
Conductor cross section AWG	13 ... 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm ² ... 16 mm ²

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

REACH SVHC	N,N-dimethylacetamide 127-19-5
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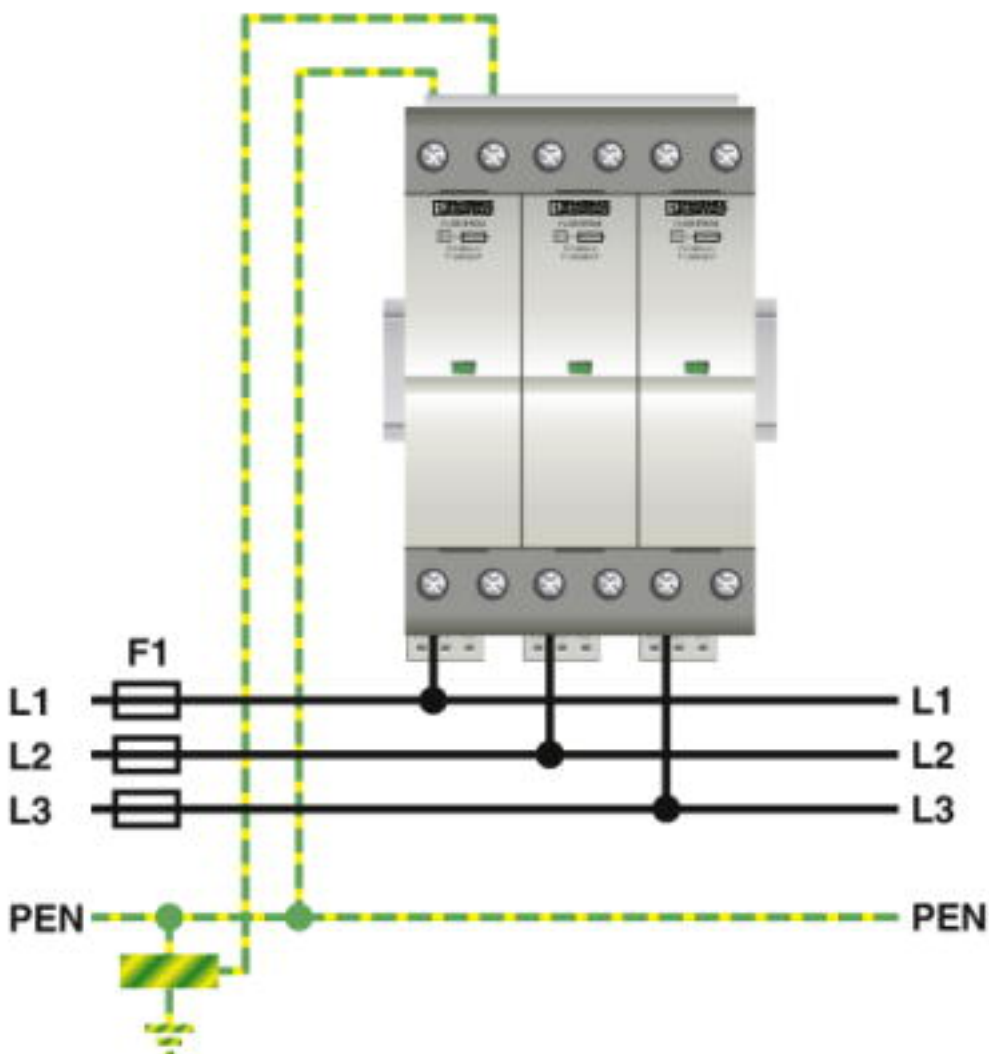
Technical data

Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

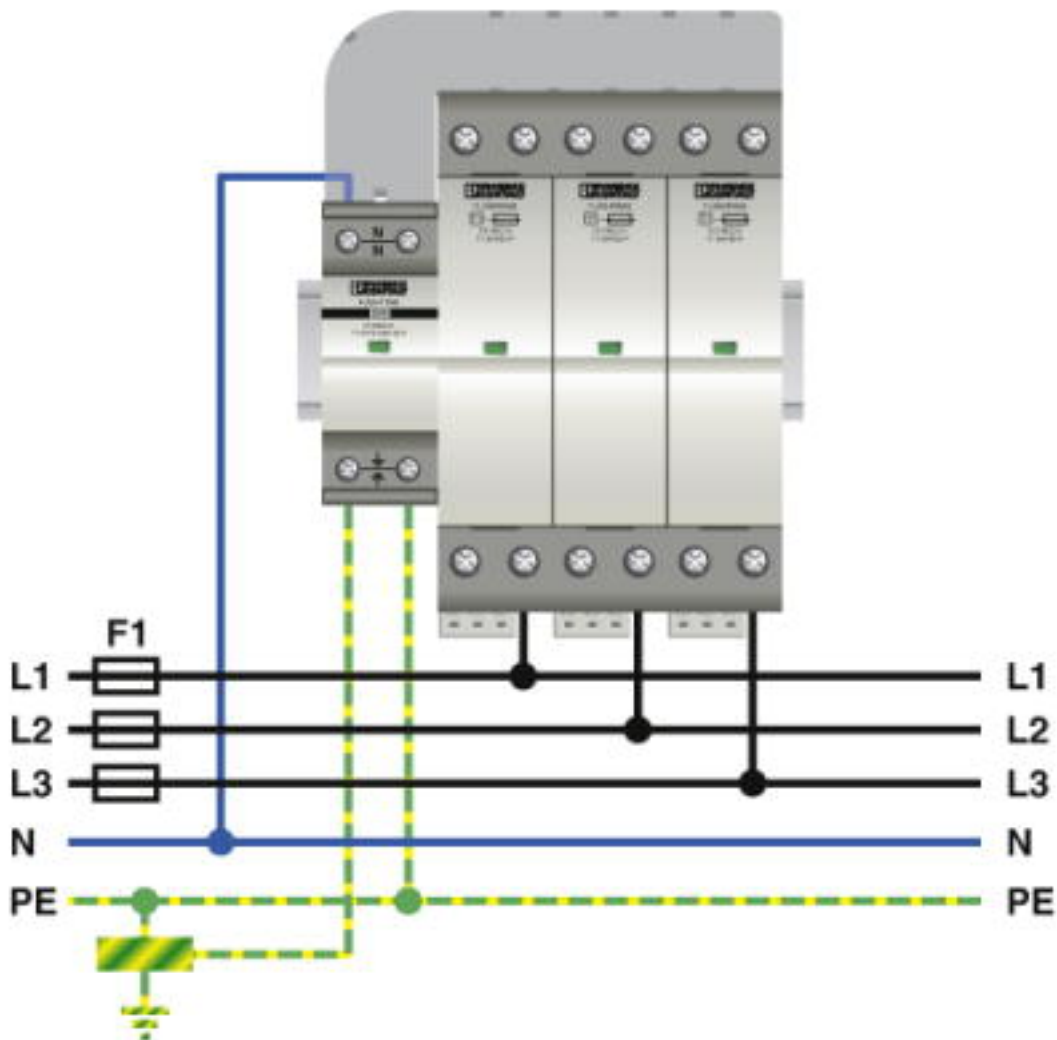
Drawings

Application drawing



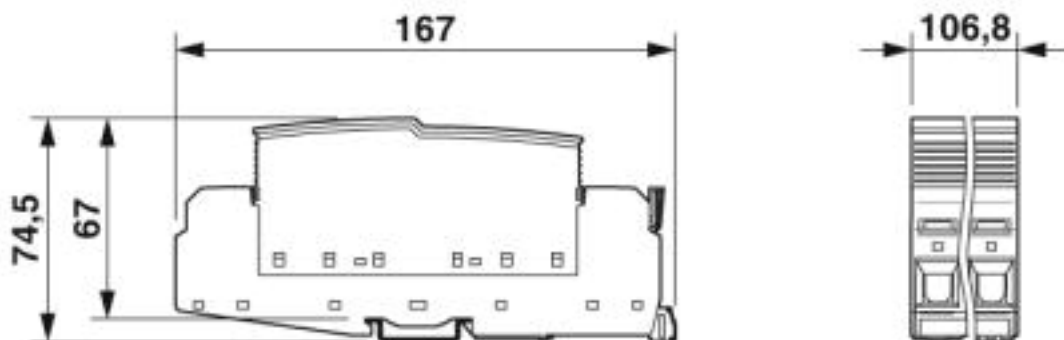
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Application drawing



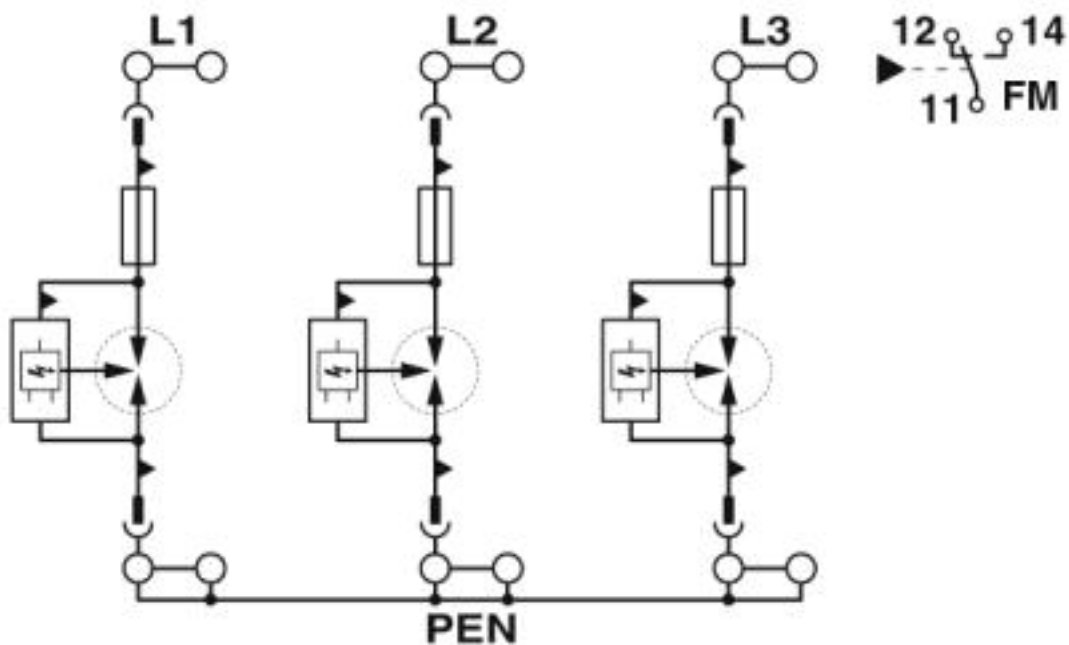
Structure of a 3+1 circuit for TN-S/-TT systems with an N/PE spark gap and wiring bridge.

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802
eCl@ss 9.0	27130802

ETIM

ETIM 4.0	EC000381
ETIM 5.0	EC000381
ETIM 6.0	EC000381
ETIM 7.0	EC000381

UNSPSC

UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620

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Classifications

UNSPSC

UNSPSC 21.0	39121620
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Approvals

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CCA / KEMA-KEUR / IECEE CB Scheme / EAC

Ex Approvals

Approval details

CCA	NTR-NL 7490
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KEMA-KEUR		http://www.dekra-certification.com	2188437.01
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IECEE CB Scheme		http://www.iecee.org/	NL-41433
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EAC			RU C-DE.A*30.B01561
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Accessories

Accessories

Bridge

Wiring bridge - FLT-SEC-H MPB-3+1 - 2910501

Wiring bridge for connecting three FLASHTRAB SEC HYBRID lightning arresters with an N/PE spark gap to a 3+1 circuit for TN-S-/TT systems. Connecting pitch of 17.5 mm, 1-phase, 8-pos., 35 mm² cross section with stable plastic housing for the required touch proofness when used as neutral conductor bridge.



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Accessories

Wiring bridge - MPB 18/1-8/35 - 2908704



Wiring bridge for modules with 17.5 mm connecting pitch, 1-phase, 8-pos., 35 mm² cross section, and mounted end caps

Wiring bridge - MPB 18/1-6/35 - 2908705



Wiring bridge for modules with 17.5 mm connecting pitch, 1-phase, 6-pos., 35 mm² cross section, and mounted end caps

Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Marker pen

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Accessories

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Spare parts

Type 1 surge protection plug - FLT-SEC-H-T1-440/25-P - 2907261



Replacement plug for lightning current arresters from the FLASHTRAB SEC HYBRID 440 product range, for L-N and L-PEN paths.